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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,034	10/31/2003	Rodolphe Lourdel	0529-1021	1105
466	7590	02/06/2008		
YOUNG & THOMPSON 745 SOUTH 23RD STREET 2ND FLOOR ARLINGTON, VA 22202			EXAMINER SWIGER III, JAMES L	
			ART UNIT 3733	PAPER NUMBER
			MAIL DATE 02/06/2008	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/697,034

Applicant(s)

LOURDEL ET AL.

Examiner

JAMES L. SWIGER

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 November 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 5/4/2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Biedermann et al (U.S. Patent No. 5,672,176) in view of Schultheiss et al. (US Publication 2002/0123752) and Varieur (US Patent 6,641,586).

Biedermann et al. disclose a device having a connector (5), a connecting rod (15), a screw having a spherical head (1) with a threaded body (2) and an external diameter greater than the spherical head (Fig. 3). Biedermann et al. further disclose a connecting element (16), vertical branches (11 and 12), a U-shaped opening (7), and a locking clip as a blocking device (20) with pressure screw (40). The Blocking device is considered the ring-like portion 20 in combination with the upper, threaded screw socket 45 to create a blocking device. The connecting element has a vertical bore (in the direction of arrow F in Fig. 1). Biedermann et al. also disclose a threaded socket (13). Biedermann et al. also disclose a device where the circular and screw-threaded portions form an internal shoulder. The disclosed device also has an internal diameter of the bore smaller than the threaded portion. Biedermann et al. finally discloses a cylindrical body with threaded screw external surface (46) with an internally opened bore (47) that can form a bearing surface.

It is also noted that the spherical screw head is also considered integral with the screw-threaded body (1, Fig. 3).

Biedermann et al. disclose the claimed invention except for, more specifically, an external diameter of the screw threads at the upper end is larger than the diameter of the spherical head. Schultheiss et al. disclose an anchoring system wherein the diameter of the spherical head is smaller than the diameter of the threads. This allows the anchor to be better fixed within the area of concern (see pars 0028-0032) within the bone. It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Biedermann et al. having at least an anchor with the

above dimensions to better secure the device in use.

Biedermann et al. disclose the claimed device except for a connecting element with a threaded vertical bore, and an accompanying ring-shaped device that is threaded and cooperates with the threaded bore. Varieur '586 disclose a spinal fixation system with an internal core with threads and an cooperating inner ring with threads (66). This modification is to provide a better tightening of the screw system. See Col. 5, lines 27-35. It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Biedermann et al. having at least the threaded engagement element system of Varieur to have a more secure spinal fixation device.

Claims 4-5 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Biedermann et al. and Schultheiss et al. '752 and Varieur '586, as applied to claim 1 above and further in view of Marnay et al. (U.S. Patent No. 5,658,285). The combination of Biedermann et al. and Schultheiss et al. and Varieur disclose the above device except for a ring. Marnay et al. teaches a ring (20) with a collar (21). It would have been obvious to one skilled in the art at the time the invention was made to incorporate the ring of Marnay et al. into the device of the combination of Biedermann et al. and Schultheiss et al. and Varieur to support a better closure for the screw interface.

Regarding claim 5 in view of Marnay, the combination of Biedermann et al. and Schultheiss et al. and Varieur disclose the claimed invention except for the sizing of the dimensions of the cylindrical portion. It would have been an obvious matter of design

choice to one skilled in the art at the time the invention was made to construct the external diameter of the cylindrical portion slightly smaller than the internal diameter, so the larger external diameter can create a collar. The applicant has not disclosed that such measurements solve any stated problem or is anything more than one of numerous shapes or configurations a person ordinary skill in the art would find obvious for the purpose of providing a forming a collar on the cylindrical portion of the anchoring device. In re Dailey and Eilers, 149 USPQ 47 (1966).

Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Biedermann et al. and Schultheiss et al. and Varieur as applied to claim 6 above and in view of Puno et al. (U.S. Patent No. 5,360,431). The combination of Biedermann et al. and Schultheiss et al. and Varieur disclose the above invention except for a vertebral anchoring device with a socket having two opposite slots partially cutting the length of the cylindrical body. Also, these two separate portions are connected by a bridge to set limits on the size of the opening created by the slots. Puno et al. discloses a socket with slots (51) that is capable of keeping the two portions connected at the level of the shoulder and delimiting a maximal opening. It would have been obvious to one skilled in the art at the time the invention was made to incorporate the modifications of Puno et al. with the device of the combination of Biedermann et al. and Schultheiss et al. '752 to better secure the vertebral anchoring device and to impose limits on its capabilities.

Response to Arguments

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Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **JAMES L. SWIGER** whose telephone number is (571)272-5557. The examiner can normally be reached on Monday through Friday, 9:00am to 5:30pm.

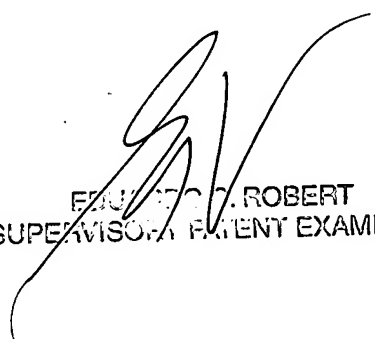
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

 2/3/2008

JLS


EDWARD J. ROBERT
SUPERVISORY PATENT EXAMINER